ASUS P527

Service Manual (L1&L2)



1 Equipment Need

NO#	Equipment Description	ASUS Part#	Supplier	Quantity	Remarks
1	**Computer**	**None**	**None**	**1**	
2	**SIM Card**	**None**	**None**	**1**	
3	**P527**	**80A-S5G1003**	**ASUS**	**1**	
4	**Battery**	**07G016043459**	**ASUS**	**1**	
5	**USB download cable**	**14G000506200**	**ASUS**	**1**	
6	**Screwdriver (T5)**	**16-T00362002**	**ASUS**	**1**	
7	**Tweezers**	**16-000600014**	**ASUS**	**1**	
8	**Plastic Wrench**	**13GV0400PZZZ**	**ASUS**	**1**	
9	**Micro SD Card**	**04G352800500**	**ASUS**	**1**	
10	**ADAPTER**	**04G267013800**	**ASUS**	**1**	

2 Introduction

2.1 About This Service Manual



Using this service manual and the suggestions contained in it assures proper installation, operation, and maintenance of the PDA P527. This manual aids service personnel in testing and repairing P527. Service personnel should be familiar with electronic assembly, testing, and troubleshooting methods.

2.2 Overview

ASUS PDA P527 is a friendly use product for young business man, heavy traveler and the people who enjoy sharing their travel experience and memory to others.

As a product which is built-in GPS with full Travelog and Location Courier applications, users can share travel route with friends. Elegant and slim (15.4mm) ID design with numeric keypad and 8 hot keys make one touch come true. Also, P527 supports FM radio. Users can enjoy latest news and music.

RSS Reader can help to receive up-to-date news or message without active access. ASUS ZIP makes users not to worry if the download file is compressed or not, just one click to open it. Memory auto clean let it always keeps enough memory space for the operation. Power saving is extra benefit. BCR digitizes contact information with high recognition rate.

2.3 Product Specification

Networking system	EDGE/GPRS/GSM 850/900/1800/1900 EGPRS Class B, Multi-slot Class 10
Operating System	Microsoft Windows Mobile 6 Professional
CPU	TI OMAP 850 (200MHz)
Dimensions	113 x 58 x 15.4 mm, 125g
Battery	1300 mAh Lithium-Ion
Talk time	4-5 hour
Standby time	150-200 hours
Form Factor	Bar type with numeric keypad
Color	Dark Gray
Display	2.6“， 65K， TFT ， 240 x 320
Connectivity	WLAN 802.11 b+g / Bluetooth 2.0+EDR / FM / USB v1.1

Browsing	HTTP and WAP 1.2.1/2.0
Messaging	SMS/MMS/Email/MSN
Memory	128 MB Flash + 64 MB SDRAM
Expansion Slot	Micro-SD (SDHC supports)
GPS	GPS (SiRF III Solution with internal antenna)
JAVA	J2ME
Camera	2 Mega-Pixel (Auto focus)
Audio	MP3, WMA, and AAC
Video	MPEG4 / H.263 Playback and Recording
Ringtone	MIDI and MP3
PIM/Utilities	Word (editor), Excel (editor), and Power Point (viewer)
Advanced	Travelog, FM radio, Bluetooth Presenter, Location courier Business Card Recognition, RSS reader, Meeting planner, Memory auto clean, GPS catcher, TMC(optional)

3 Disassembly / Assembly Procedure

3.1 Introduction

This section describes how to disassemble PDA P527. Many of the integrated devices used in this phone are vulnerable to damage. Ensure adequate static protection is in place when handling, shipping, and servicing any internal components.

3.1.1 Recommended Tools

- Anti-Static Mat (Ground Cord included)
- Anti-Static Wrist Strap
- Torque Screw Driver (T5 type, torque is set to 1.2kg-cm)
- Tweezers
- Plastic blade



3.1.2 Disassembly Procedure

The following set of diagrams will demonstrate the correct sequence and action to disassemble P527.

■ Step 1

Take the stylus away from the PDA.



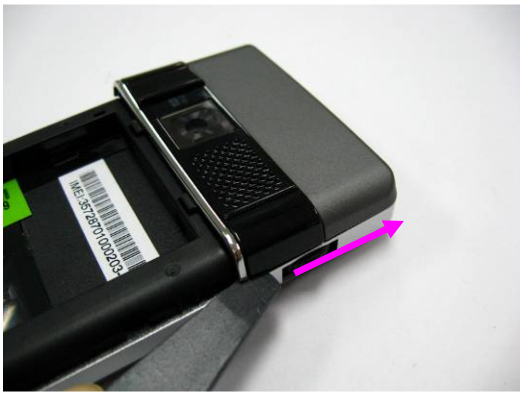
■ Step 2

Remove the battery case and take the battery away.




■ Step 3

Take off the antenna cover by plastic blade.



■ Step 4

Unscrew and remove 4 screws on PDA by screw driver.

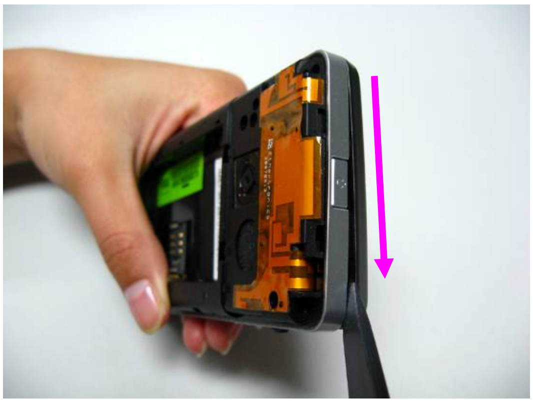


■ Step 5

Please switch the "Hold" key as the arrowhead shows. Then separate the middle cover from front cover by plastic blade.







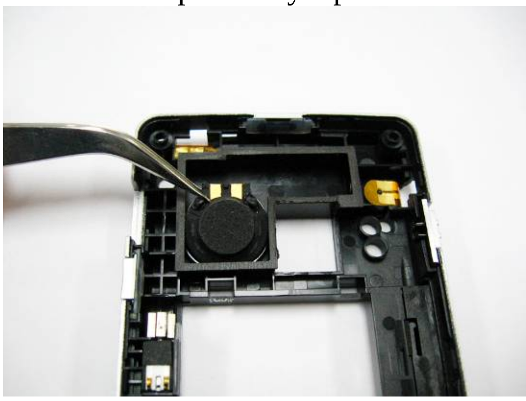






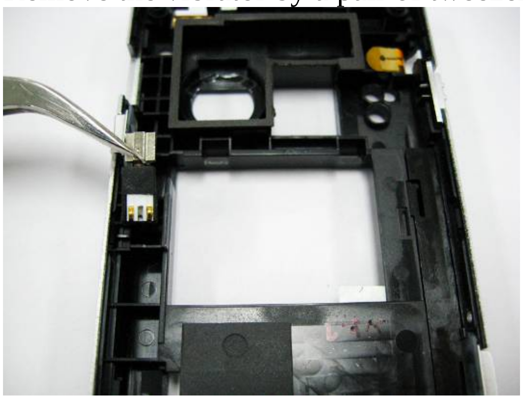
■ Step 6

Remove the speaker by a pair of tweezers.



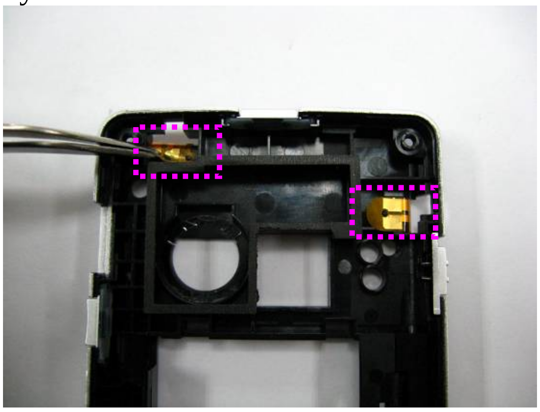
■ Step 7

Remove the vibrator by a pair of tweezers.



■ Step 8

Release the antenna FPC by a pair of tweezers. Then tear off the antenna FPC from middle cover by hand.





■ Step 9

Open the LCM connector by plastic blade and release the LCM FPC by a pair of tweezers.





■ Step 10

Separate the main board from front cover. Pay attention to the hook at the bottom of the front cover. Main board should be released from it first.








■ Step11

Open the camera connector by plastic blade and remove it from main board by hand.



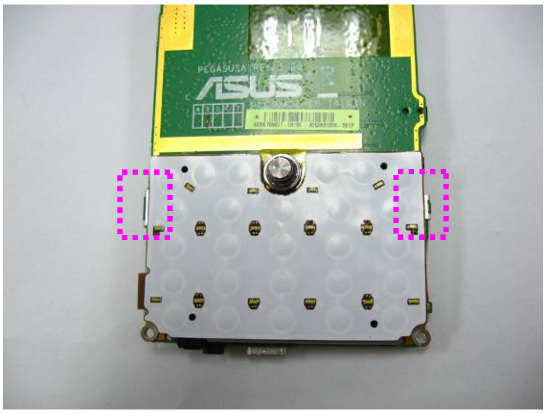
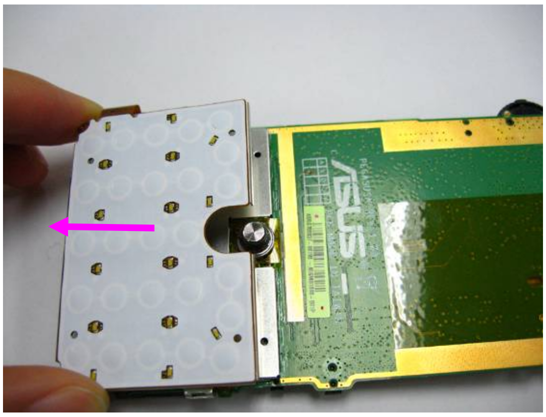
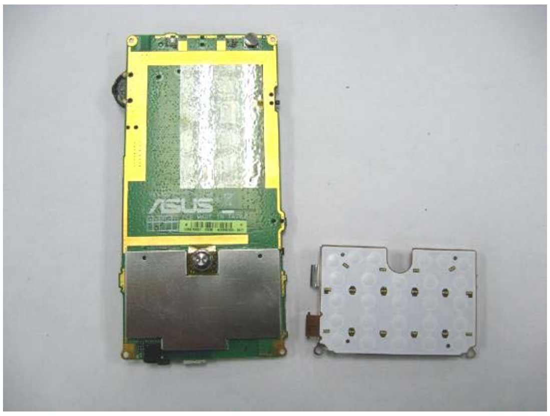

■ Step12

Open the touchpad FPC connector and release the FPC by a pair of tweezers.



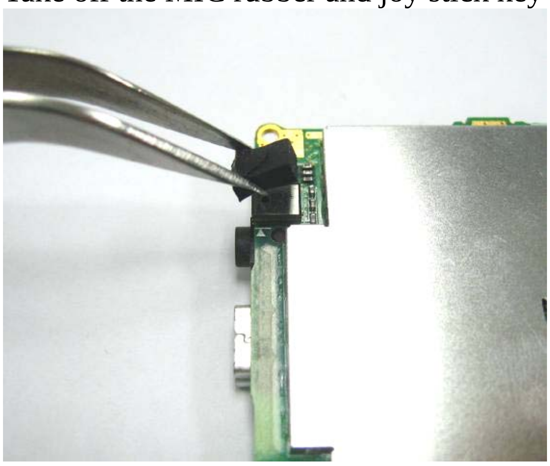

■ Step13

Take the touchpad FPC away. Pay attention to the hooks. The FPC should be released from them first.

■ Step14

Take off the MIC rubber and joy stick key by a pair of tweezers.




■ Step15

Take off the keypad by hand.



■ Step16

Remove the two top bezel rubbers by a pair of tweezers and then take the LCD module away.







■ Step17

Remove the receiver by a pair of tweezers.



3.1.3 Assembly Procedure

It is carried out in the exact reverse sequence as the disassembly.

■ Step 1

Install the receiver on the front cover by a pair of tweezers.



■ Step 2

Install the LCM on the front cover and place two top bezel rubbers to fix the LCM.

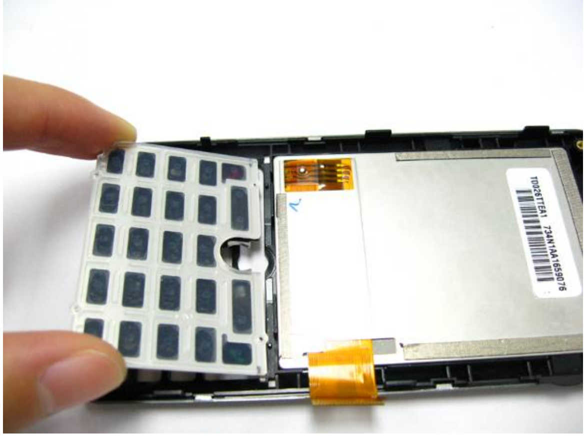






■ Step 3

Install the keypad and arrange the keypad properly in the front cover.

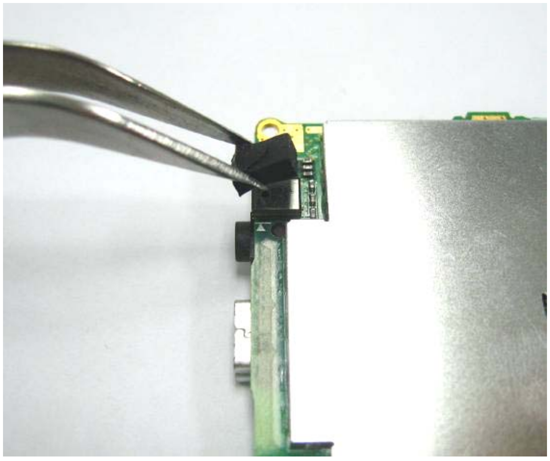




■ Step 4

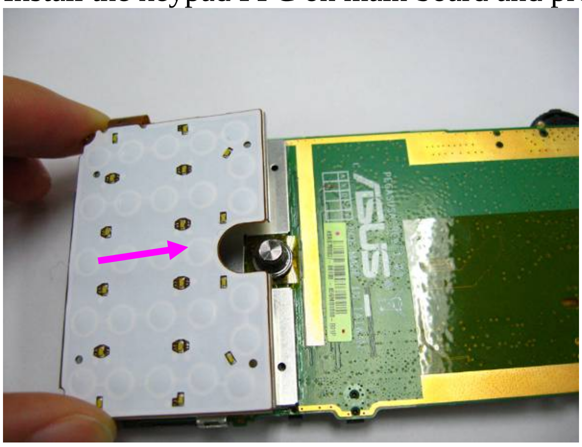
Install the joystick key and MIC rubber by a pair of tweezers.

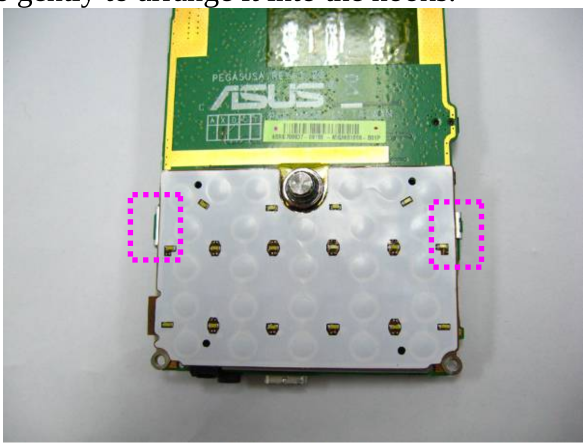




■ Step 5

Install the keypad FPC on main board and press gently to arrange it into the hooks.





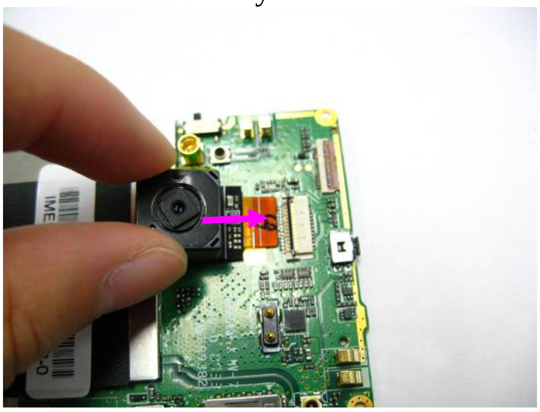
■ Step 6

Connect the keypad FPC with main board by a pair of tweezers and close the connector by plastic blade.




■ Step 7

Install the camera by hand and close its connector by plastic blade.




■ Step 8

Install the main board on front cover and press gently to fix it into the hook. Please notice the hook on top of front cover. The main board should be inserted first and then arranged into the hook at bottom of front cover.






■ Step 9

Connect the LCM FPC by a pair of tweezers and close its connector by plastic blade.

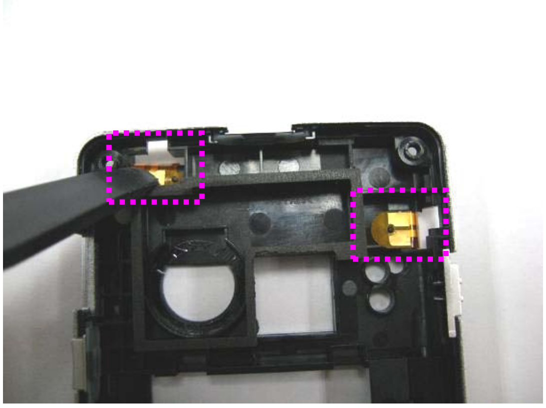




■ Step 10

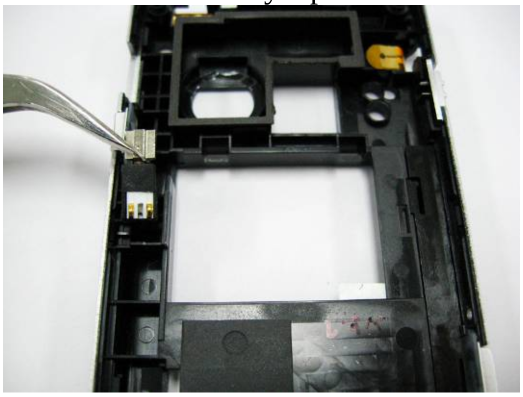
Install the antenna FPC on middle cover and then arrange it by plastic blade.





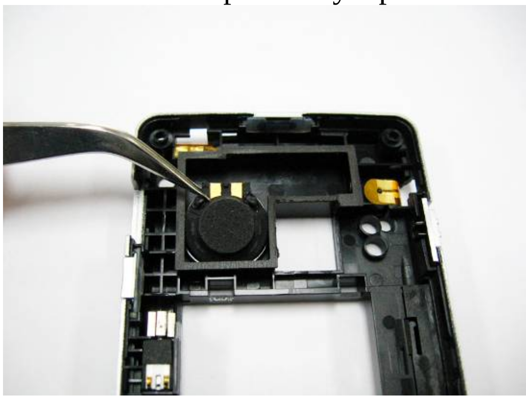
■ Step 11

Install the vibrator by a pair of tweezers.



■ Step 12

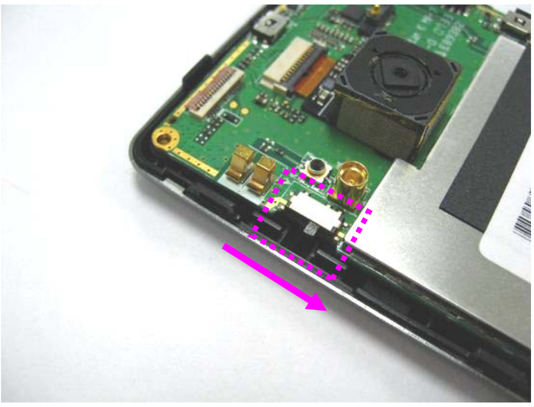
Then install the speaker by a pair of tweezers.

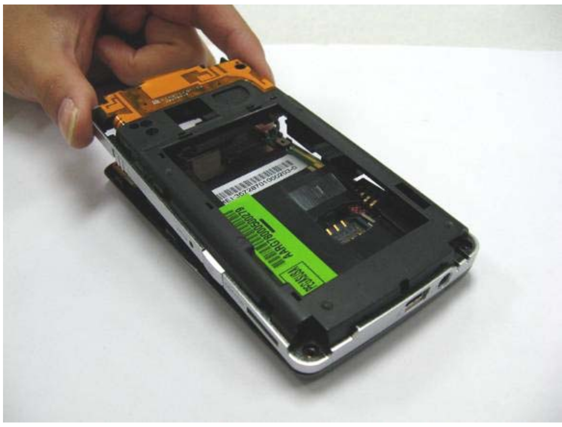


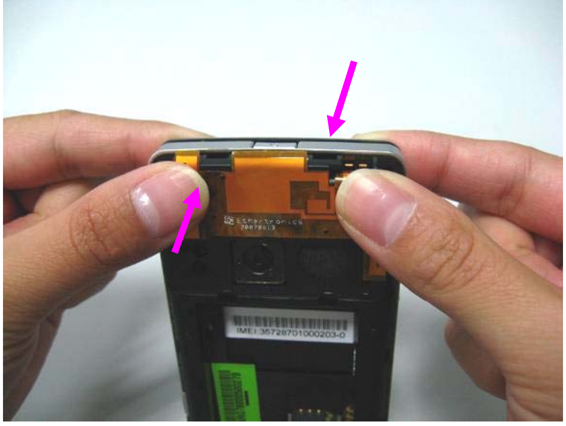
■ Step 13

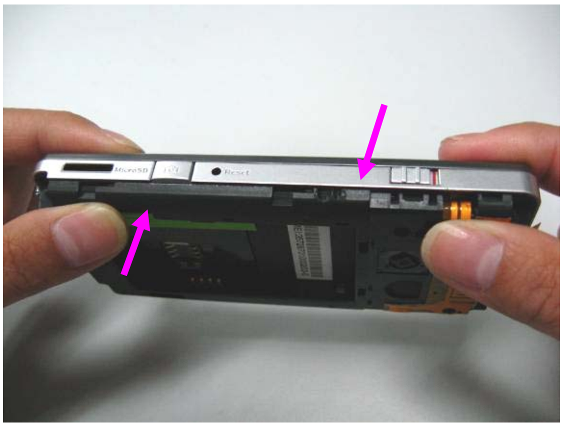
Install the middle cover and press four sides to lock it into the hooks. Pay attention to the "Hold" key, please switch it firstly as the arrowhead shows.

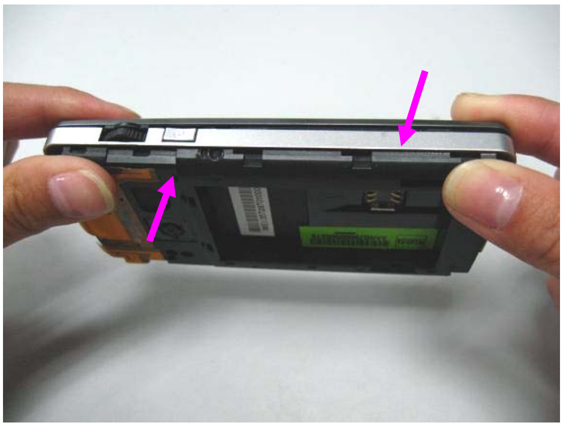












■ Step 14

Secure 4 screws on middle cover by screw driver.



■ Step 15

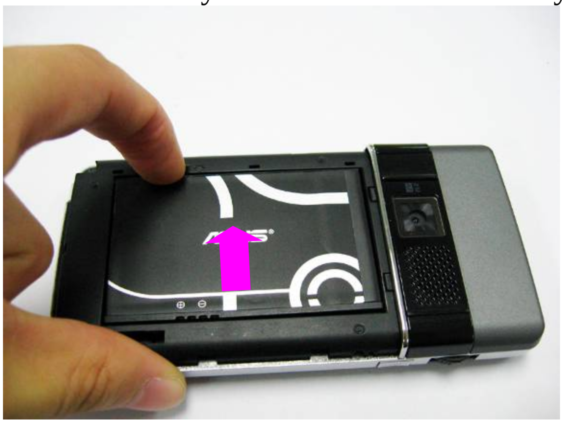
Install the antenna cover and press to fix it.





■ Step 16

Place the battery back and install the battery cover.



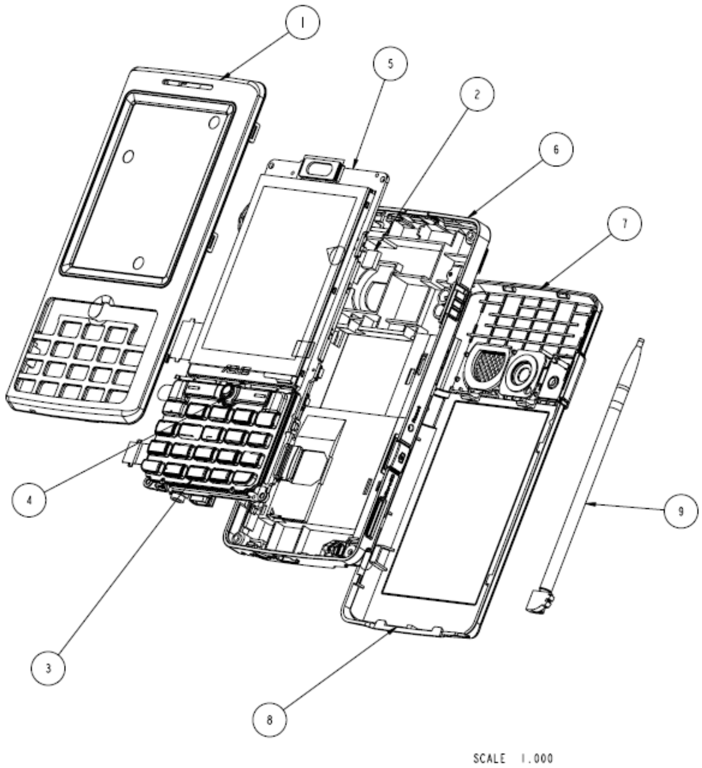


■ Step 17

Insert the stylus.



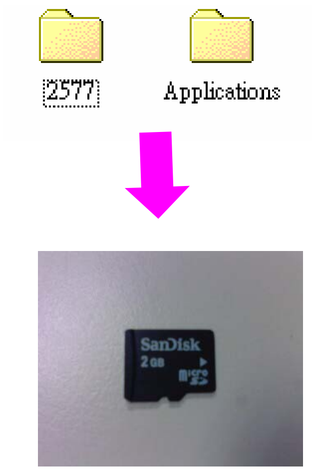
3.2 Exploded Diagram



Item	PART NUMBER	PART NAME
1	13GA5G1AP010-1	PEGASUSA TOP CASE ASSY
2	13GA5G10T020-1	PEGASUSA TOP BEZEL RUBBER
3	13GA5G10P060-1	PEGASUSA KEYPAD
4	13GA5G10P130-1	PEGASUSA JOYSTICK
5		PEGASUSA PCB ASSY
6	13GA5G1AP020-1	PEGASUSA MIDDLE CASE ASSY
7	13GA5G1AP030-1	PEGASUSA ANTENNA COVER ASSY
8	13GA5G10P090-1	PEGASUSA BATTERY COVER
9	13GA5G10P120-1	PEGASUSA STYLUS

4 MMI Testing

1. Download & Copy files to micro SD card.

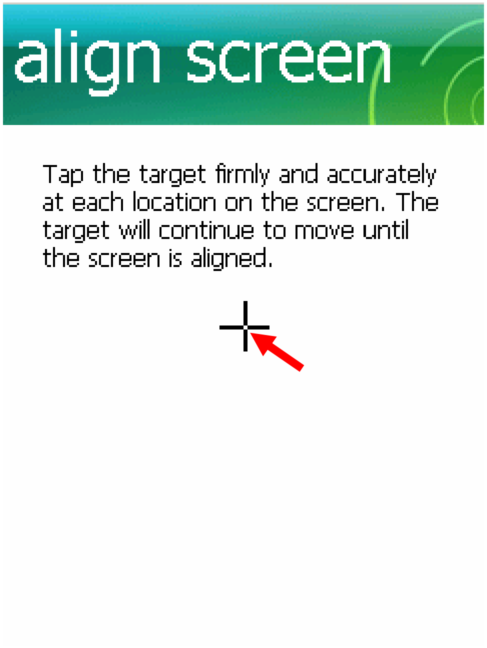


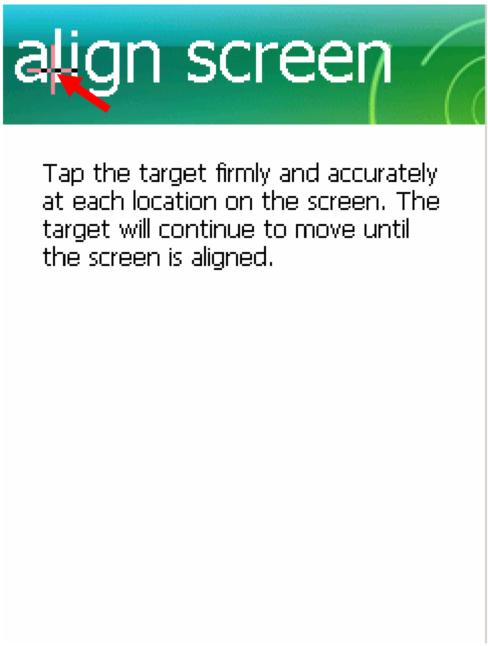
2. Insert micro SD card.

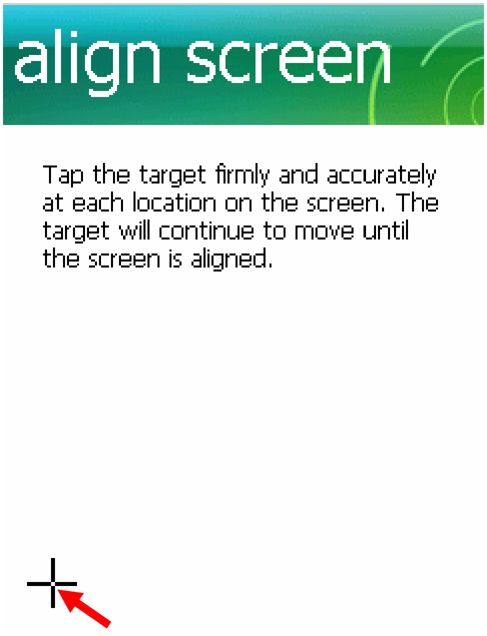


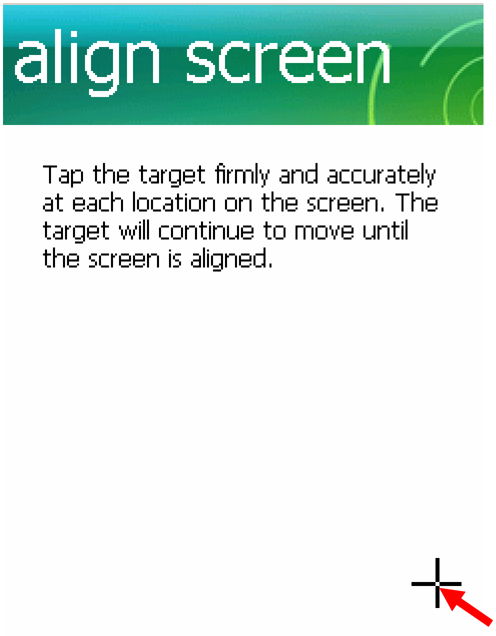
3. Please follow instructions as displayed.

3-1. Touch Panel Calibration Test





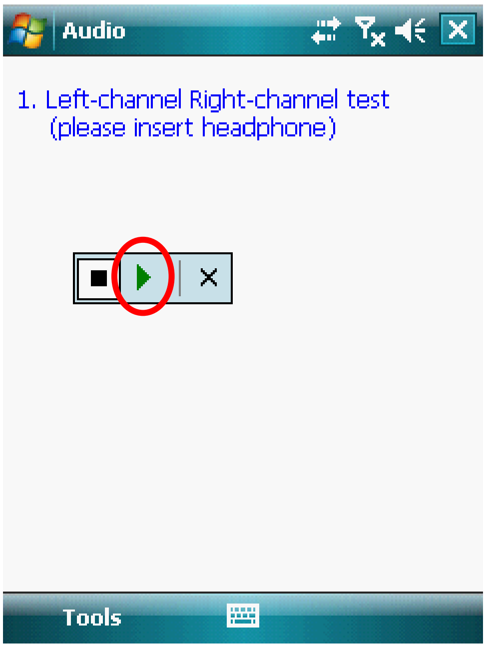


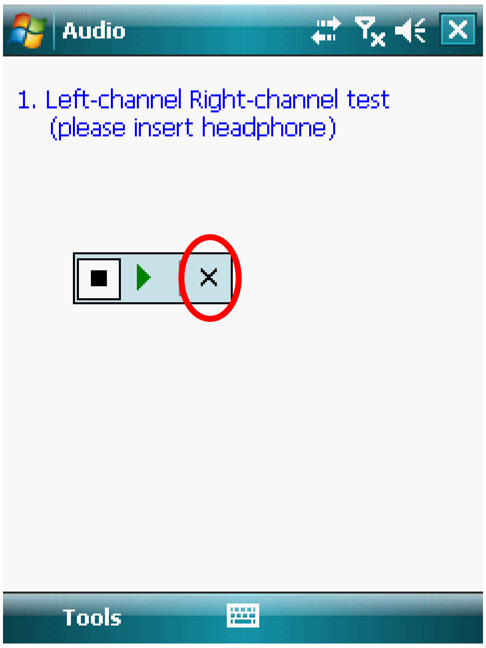


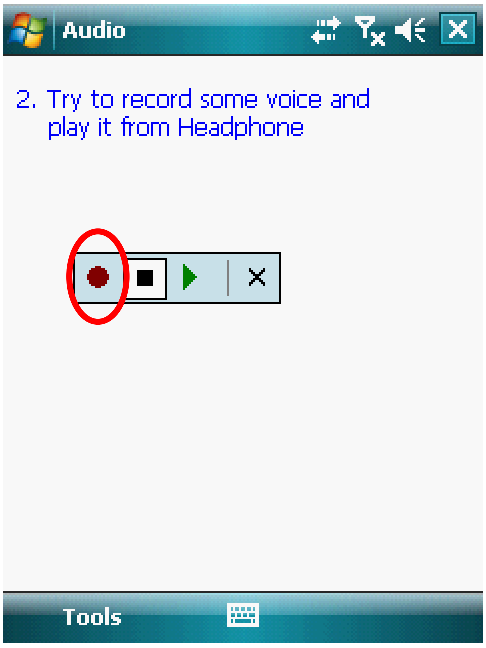


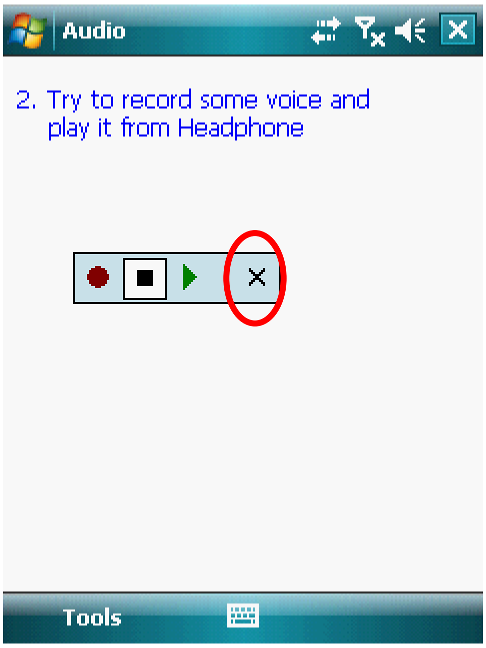
3-2. Audio Test

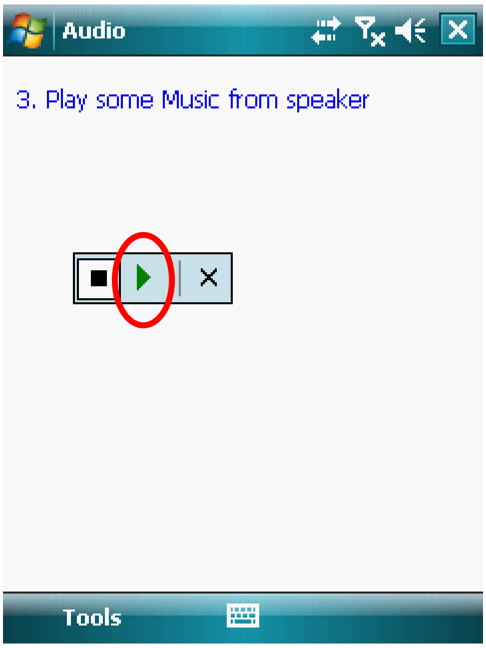
In this test, item 1 & 2 need to be done with the headphone, otherwise, just bypass.

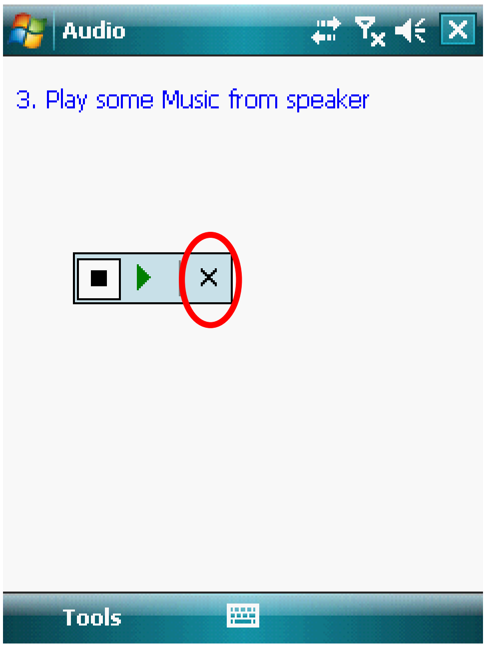


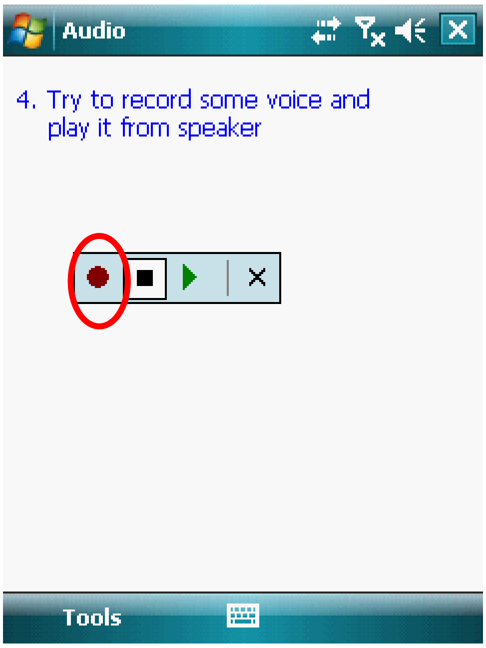


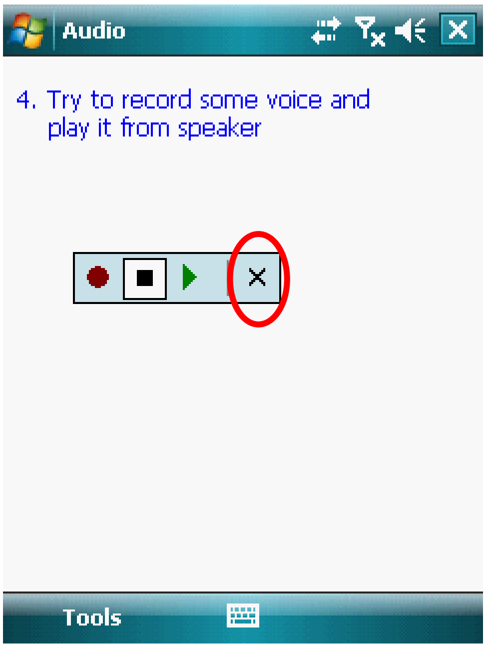

Audio
2. Try to record some voice and
play it from Headphone
Tools

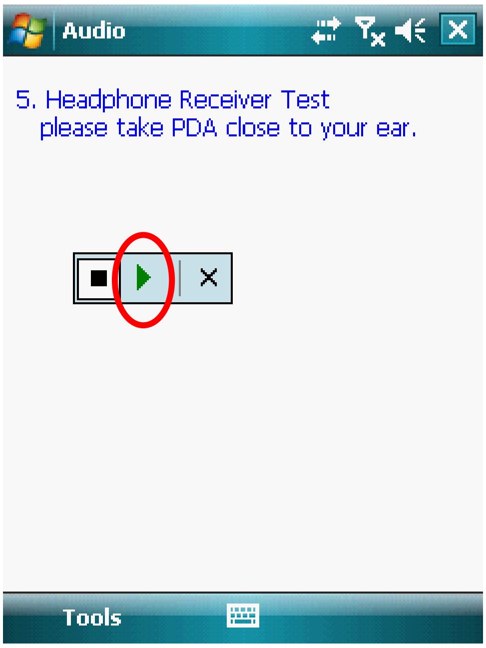

Audio
2. Try to record some voice and
play it from Headphone
Tools

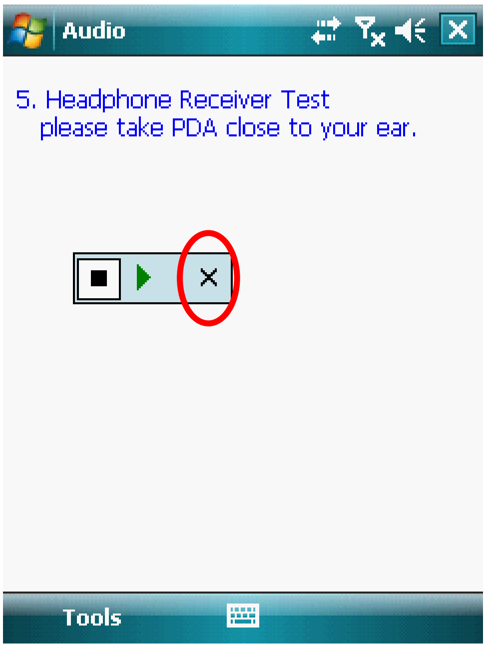

Audio
3. Play some Music from speaker
Tools

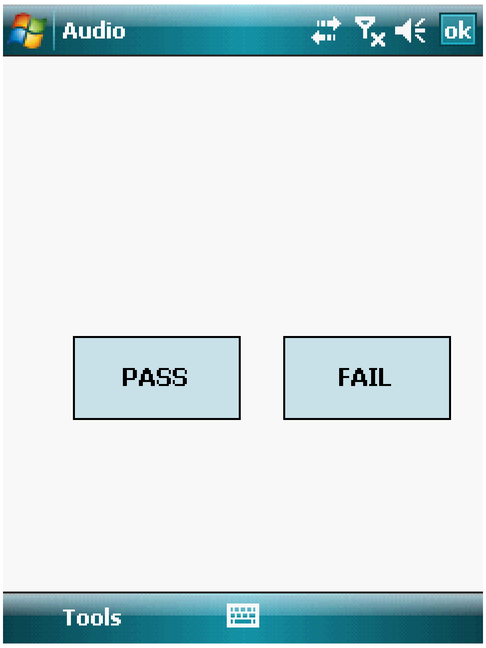

Audio
3. Play some Music from speaker
Tools


Audio
4. Try to record some voice and
play it from speaker
Tools

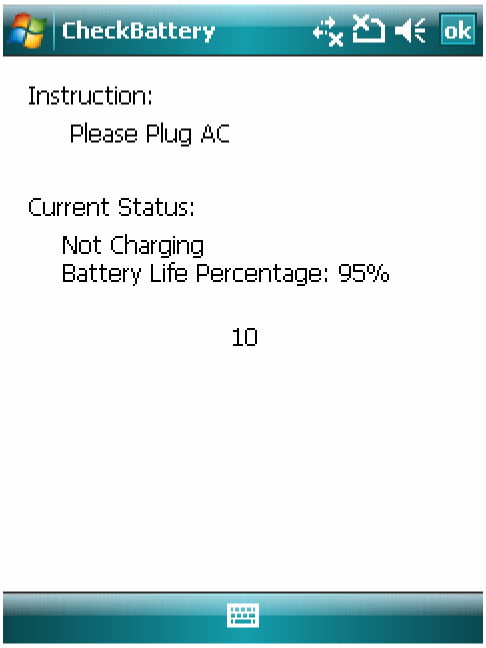

Audio
4. Try to record some voice and
play it from speaker
Tools

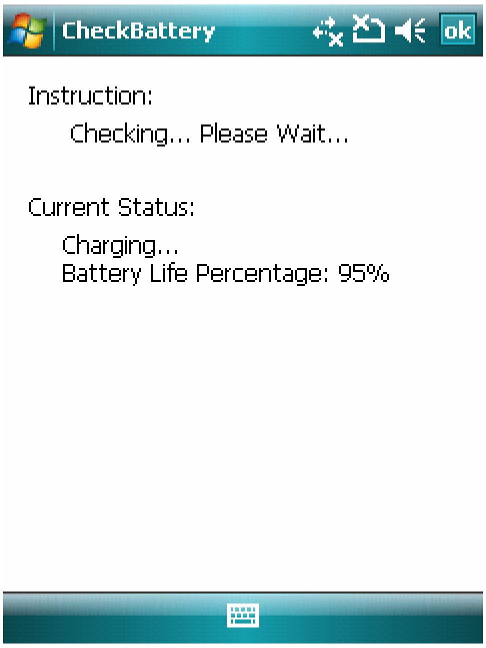

Audio
5. Headphone Receiver Test
please take PDA close to your ear.
Tools

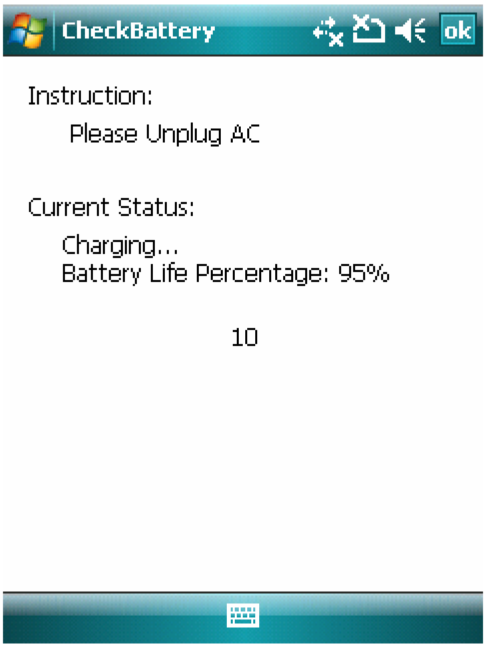

Audio
5. Headphone Receiver Test
please take PDA close to your ear.
Tools

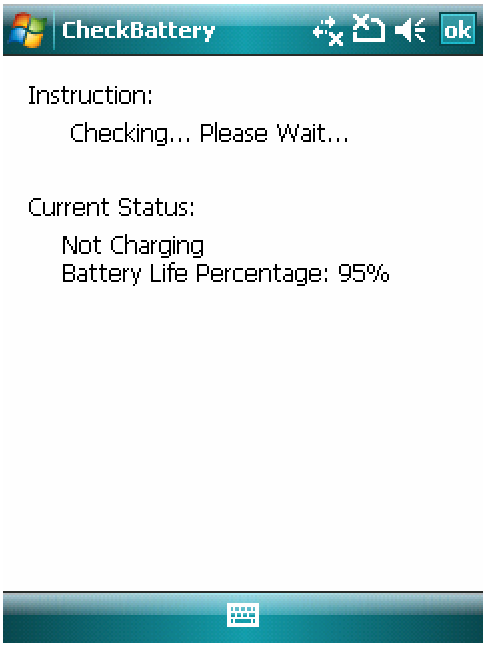


3-3. Battery Test

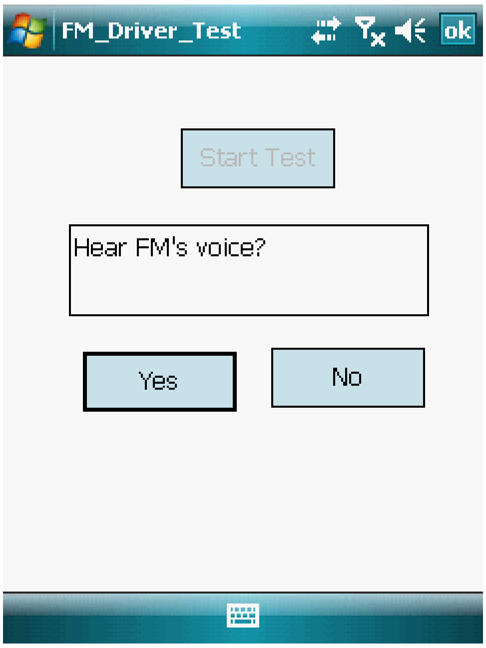


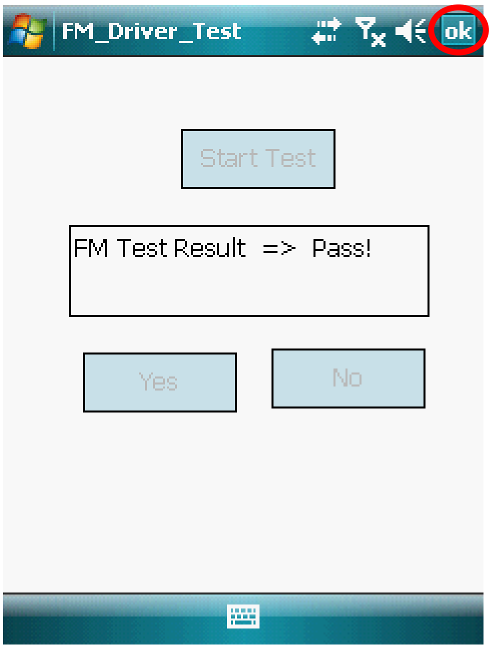



CheckBattery
ok
Instruction:
Please Unplug AC
Current Status:
Charging...
Battery Life Percentage: 95%
10

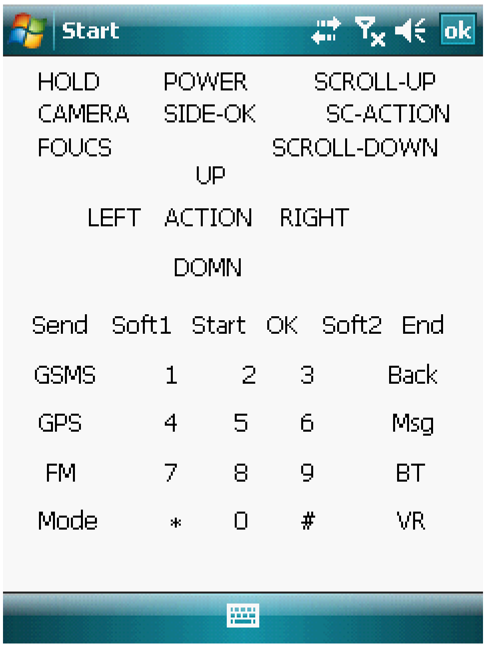

CheckBattery
ok
Instruction:
Checking... Please Wait...
Current Status:
Not Charging
Battery Life Percentage: 95%

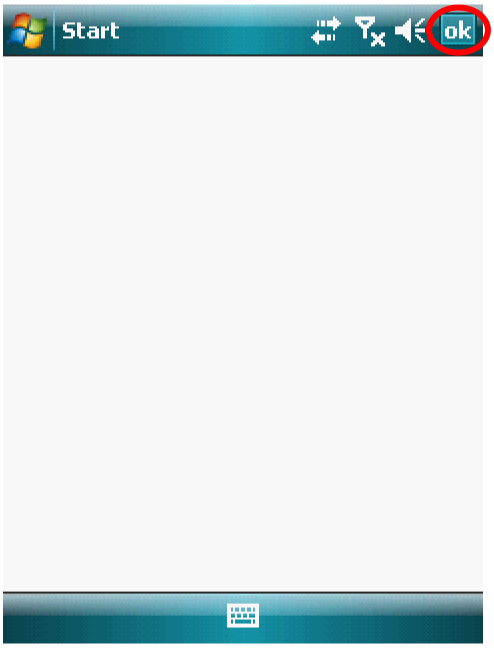
3-4. FM Test


FM_Driver_Test
ok
Start Test
Hear FM's voice?
Yes
No

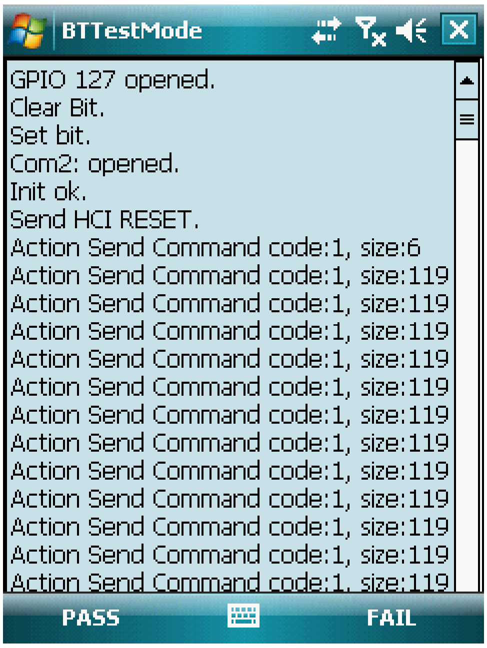

FM_Driver_Test
ok
Start Test
FM Test Result => Pass!
Yes
No

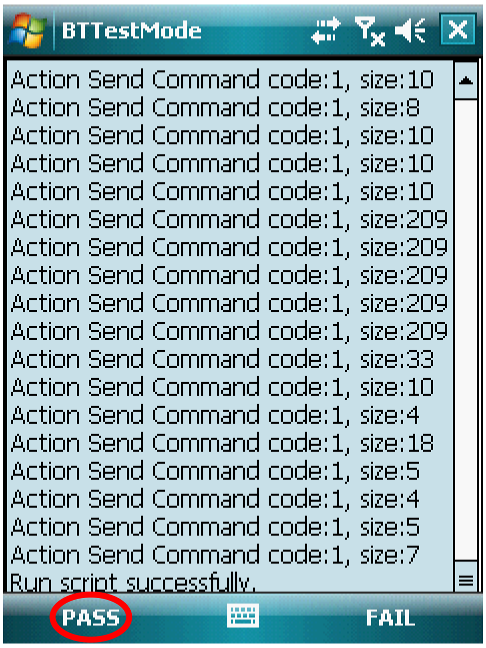
3-5. Keypad Test



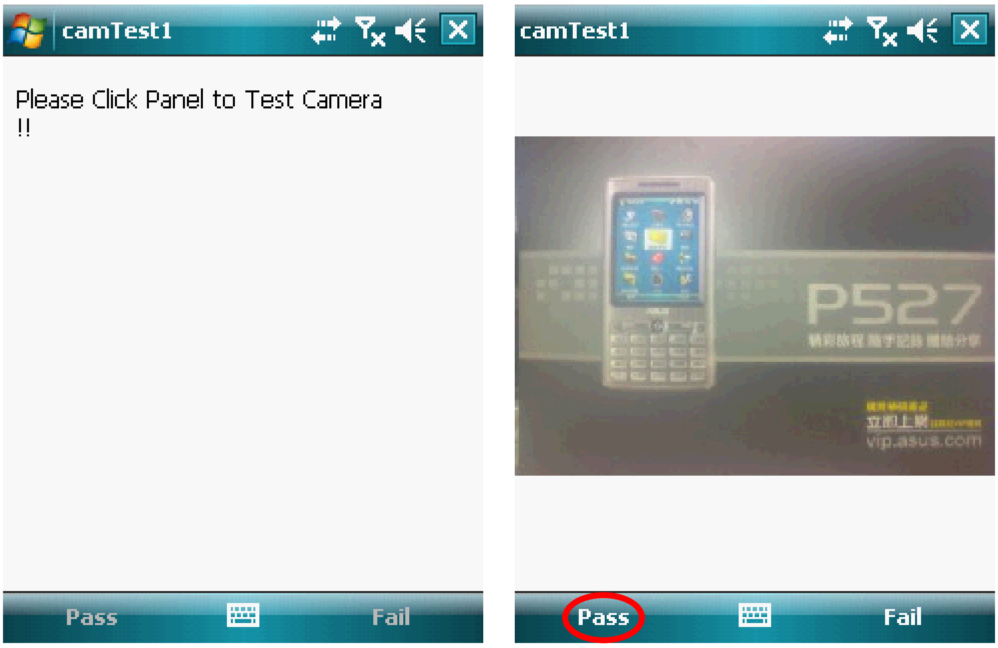


3-6. Bluetooth Test

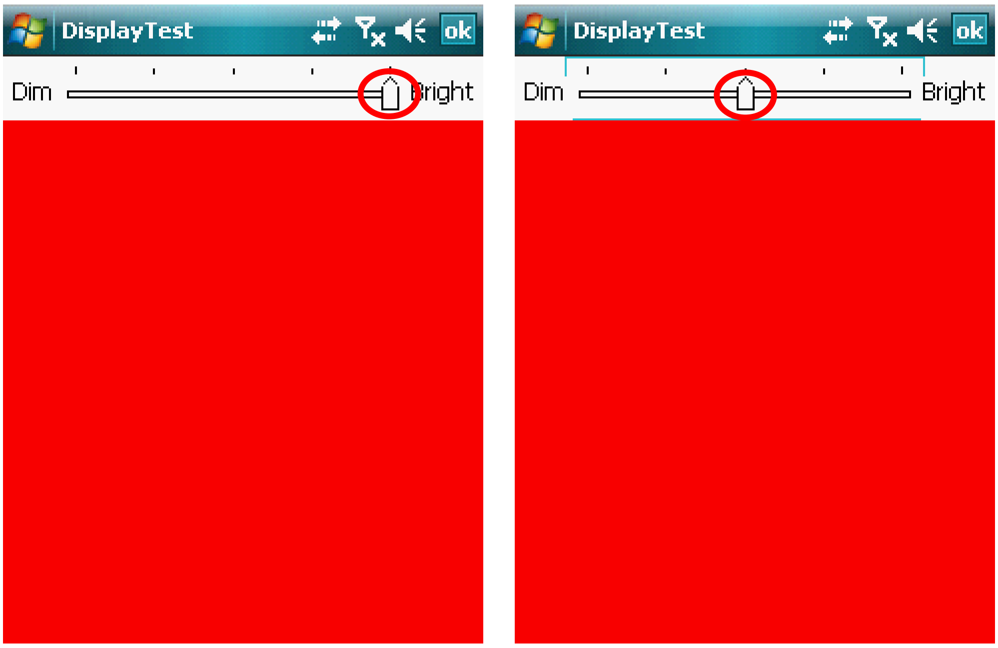


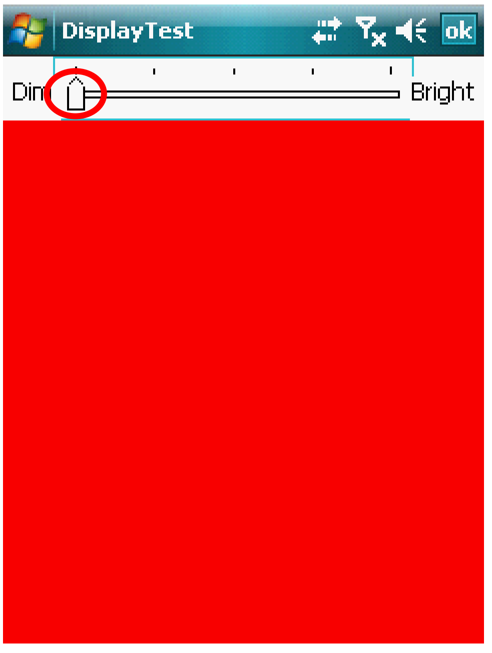


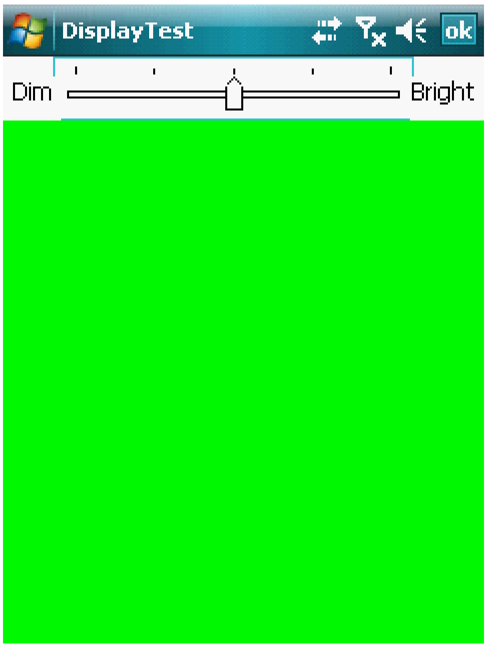
3-7. Camera Test

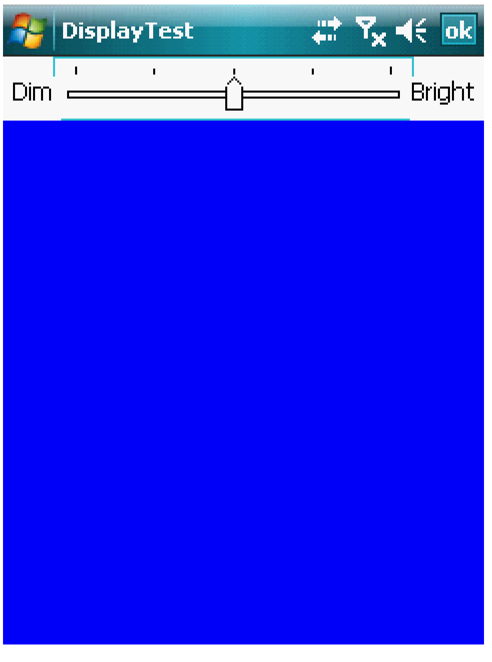


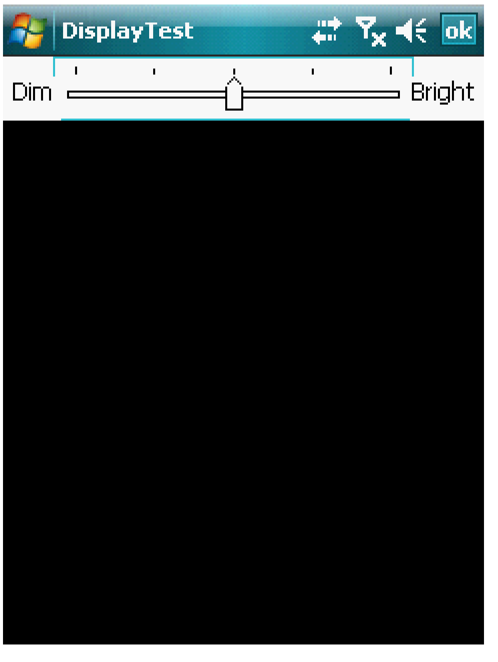
3-8. Display Test

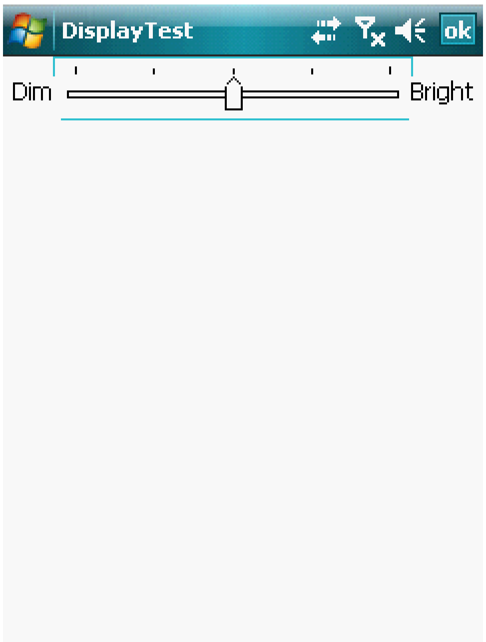


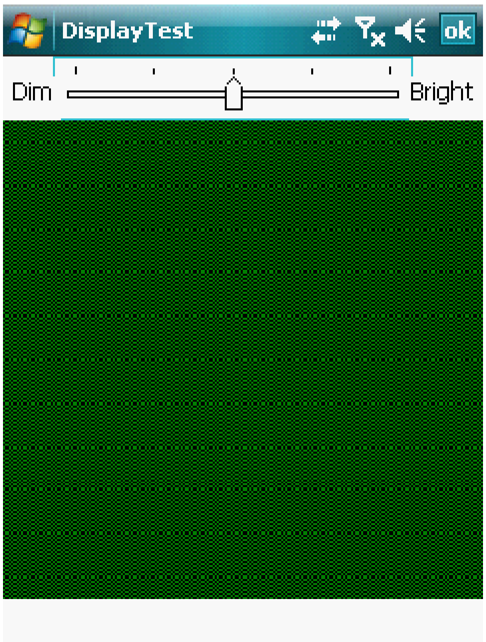

DisplayTest
ok
Dim
Bright

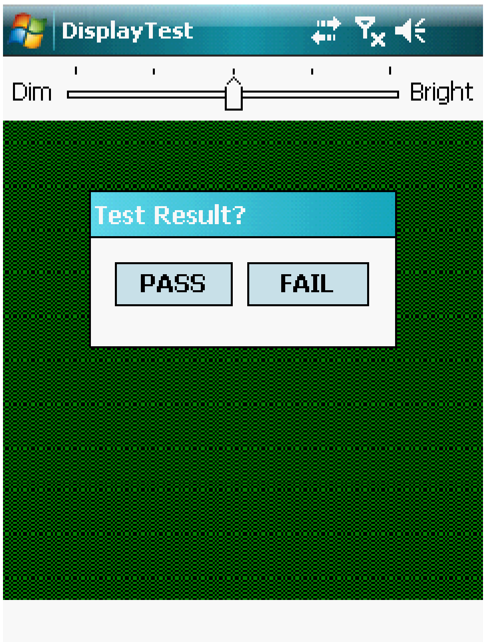

DisplayTest
ok
Dim
Bright


DisplayTest
ok
Dim
Bright

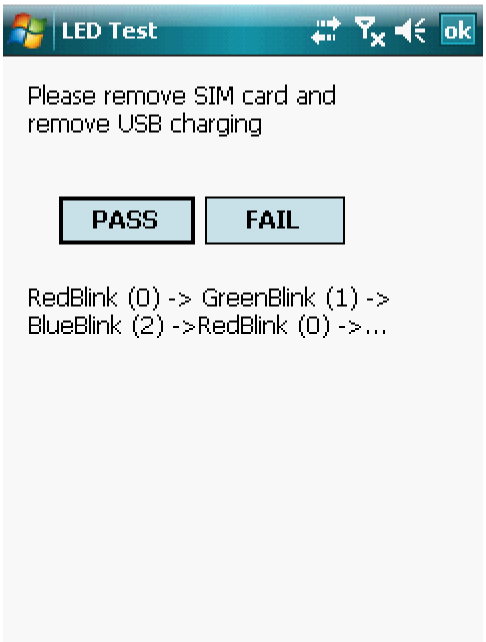

DisplayTest
ok
Dim
Bright


DisplayTest
ok
Dim
Bright


DisplayTest
ok
Dim
Bright


DisplayTest
Dim
Bright
Test Result?
PASS
FAIL

3-9. LED Test



3-10. Vibrator Test



3-11. Reset Button Test

